ForensiGen

Curriculum Vitae:

Dr. Maher "Max" Noureddine, PhD, MS, D-ABC

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Biosketch:

Dr. Noureddine is a molecular geneticist with extensive background in scientific research and expertise in pharmaceutical industry consulting and forensics. He graduated with a B.S. in Biology from Radford University in Virginia, an M.S. in Molecular Biology from the University of North Carolina at Greensboro, and a Ph.D. in Molecular Genetics from the University of North Carolina at Chapel Hill. He then completed a postdoctoral fellowship at Duke University Medical Center where he published many articles on the genetics of Parkinson's disease and other human genetic disorders. Between 2005 and 2007 he was a research fellow at the National Institute of Environmental Health Sciences/NIH, where he studied the tumor suppressor gene p53 and genomic variations that confer cancer susceptibility in humans. His expertise includes specialized training in complex disease genomics, DNA typing platforms, Mitochondrial genomics and bioenergetics, single nucleotide polymorphism (SNP) analysis, and state of the art methodologies in gene structure and function studies. Between 2007 and 2010, he served as chief scientific officer at Thought Leader Select, LLC, a North Carolina-based pharmaceutical consulting company where he led projects for the top global pharmaceutical companies in therapeutic for diabetes, neurodegenerative disease, and inflammatory disorders, among others. In 2010 he established the Institute for Advanced Career Development (IACD), a non-profit organization that is dedicated to career education and training. In early 2011 he established ForensiGen, LLC, a company that provides law professionals with sound counsel and expertise in forensic DNA and serology evidence evaluation, interpretation, and evidence testing. He currently serves as an expert in the field of forensic molecular biology (biological evidence: DNA and serology) in numerous criminal cases, and conducts scientific research in areas of biological evidence collection and serology testing. He develops and presents seminars and workshops focused on forensic biological evidence and the challenges to that evidence in the court of law. He is a Diplomat of the American Board of Criminalistics and a member of the American Academy of Forensic Sciences, the International Society of Forensic Genetics, the American Society of Human Genetics, and the International Association for Identification. Dr. is an adjunct faculty at Radford University Department of Forensic Science. His experience includes over 20 years of public service as a volunteer and search and rescue pilot with the Civil Air Patrol, the Auxiliary of the United States Air Force.

Work History:

Current (December 2010 -)

President: ForensiGen, LLC (www.forensigen.com)

-A consulting company with focus on forensic DNA and Serology evidence evaluation, interpretation, and testing.
-Specializing in criminal cases, civil cases, maternity/paternity testing, infidelity.
-Research investigations in Forensic DNA and Serology, Genomics consulting.
-Served or currently serving as Forensic Expert on criminal and civil cases*:

*****Experience record includes over **500** criminal (Federal and State) as well as civil cases. Case work in United States including NC, CA, MD, VA, FL, GA, IL, MS, PA, NY, TX, DC, MN, TN.

Founder and President: The Institute for Advanced Career Development (IACD): (www.theiacd.org)

The mission of the IACD is:

To provide educational mentorship and career guidance programs for professionals aspiring to diversify their knowledge, skills, and expertise; and to prepare, equip, and enable the leaders of tomorrow to make a positive impact on their communities and the lives they touch.

As a non-profit organization, the IACD focuses on training and professional development services to professionals in healthcare, research, and other disciplines. The IACD is also focused on providing specialized training in DNA forensics and molecular genetics for legal professionals. **The IACD is an IRS-approved 501 (c)(3) corporation**.

Adjunct Teaching Faculty (2018 - current):

Department of Forensic Science, Radford University, Radford, Virginia

Recent Participation in Seminars, Lectures, and Webinars:

Presenter, Seminar (3.0 hr CLE): ***Forensic DNA and Serology Evidence: Advances in Testing and Interpretation,*** Rowan County Bar Association, 16 November 2018, Salisbury, NC

Presenter, Seminar: ***Updates on DNA and Serology Testing by the CMPD Lab,*** Mecklenburg County Office of the Public Defender, 19 October 2018, Charlotte, NC

Presenter, seminar: ***DNA Update: Y-STR and Mixture Analysis,*** 2018 NC Forensic Consultant Network (CLE Program for NC Public Defenders), 29 September 2018, Judicial Center, Raleigh, NC.

Presenter, Seminar: ***Forensic DNA and Serology Evidence: Science, Justice, and the Gaps in Between,*** Criminal Procedure and Innocence and Justice Clinic, The Wake Forest University School of Law, 14 March 2018, Winston-Salem, NC.

Presenter, Research Abstract: ***DNA in the Air: The Recovery of DNA Samples from Residential HVAC Air Return Filters Using the Single 4N6FLOQSwab Method***, General Section Platform Presentation, 70th Annual Scientific Meeting, The American Academy of Forensic Sciences, February 2018, Seattle, WA.

Presenter, Seminar (2.0 hr CLE): ***Updates on DNA Testing and Mixture Interpretation,*** Mecklenburg County Office of the Public Defender, 15 December 2017, Charlotte, NC

Presenter, Seminar: ***Forensic DNA and Serology Evidence: Science, Justice, and the Gaps in Between,*** Criminal Procedure and Innocence and Justice Clinic, The Wake Forest University School of Law, 1 November 2017, Winston-Salem, NC.

Presenter, lecture: ***Validating Tests Used in Bodily Fluids Identification: Present and Future,*** Assessing Reliability: Forensic Evidence After PCAST, Forensic Science Division, The Cook County Public Defender, Loyola University School of Law, 1-2 June 2017, Chicago, IL.

Co-Chair and Presenter, full day (6.25 CLE hrs) workshop and live webinar: ***Understanding DNA Evidence: New Approaches to Interpreting Mixtures and "Touch" DNA Samples***, The North Carolina Advocates for Justice, 28 April 2017 (Available on demand through NCAJ website).

Presenter, Seminar: ***Forensic DNA and Serology Evidence: Science, Justice, and the Gaps in Between,*** Criminal Procedure and Innocence and Justice Clinic, The Wake Forest University School of Law, 5 April 2017, Winston-Salem, NC.

Presenter, Research Abstract: ***A Follow-Up Study: Recovery of "Touch" DNA from Selected Firearms Using the Single 4N6FLOQSwab Method***, General Section Platform Presentation, 69th Annual Scientific Meeting, The American Academy of Forensic Sciences, February 2017, New Orleans, LA.

Presenter, Live Webinar: ***Forensic DNA Mixture Interpretation: Is There a Line Between Gold Standard and Junk?*** The North Carolina Advocates for Justice, 15 November 2016 (Available on demand through NCAJ website).

Presenter, lecture: ***The Science and Limitations of Forensic Serology Evidence,*** Questioning Forensics: Inside the Black Box, The Legal Aid Society's DNA Unit, Benjamin N. Cardozo School of Law - Yeshiva University, 29 October 2016, New York, NY.

Presenter, Seminar (2.5 hr CLE): ***Interpretation of Forensic DNA Mixtures: Past, Present, and Future,*** Mecklenburg County Office of the Public Defender, 30 September 2016, Charlotte, NC

Presenter, seminar: ***Understanding DNA and Serology Terminology and Reporting Language,*** 2016 NC Forensic Consultant Network (CLE Program for NC Public Defenders), 10 October 2016, Judicial Center, Raleigh, NC.

Panelist, ***Forensic and Laboratory Science***: 2016 Career Prep Conference, 24 September 2016, Radford University, Radford, VA.

Panelist, ***Mixed DNA Profiles and Problems with Interpretation***: 2016 Spring Public Defender Attorney and Investigator Conference, May 12, 2016, Great Wolf Lodge, Concord NC.

Presenter, Research Abstract: A Follow-Up Study: ***Recovery of "Touch" DNA From Cleaned Pistol and Ammunition Surfaces***, General Section Platform Presentation, 67th Annual Scientific Meeting, The American Academy of Forensic Sciences, February 2016, Las Vegas, NV.

Presenter, seminar: ***Tips and Insights on DNA, Experts and Expert Opinions: Rule 702 and Daubert***, NC Attorneys for Science and Technology, 6 November 2015, Raleigh, NC

Presenter, Seminar: ***Forensic DNA and Serology Evidence: Science, Justice, and the Gaps in Between,*** Criminal Procedure and Innocence and Justice Clinic, The Wake Forest University School of Law, 30 September 2015, Winston-Salem, NC.

Presenter, Seminar (2 hr CLE): ***Interpreting DNA Mixtures: Problems, Pitfalls, and Lessons Learned from the Washington DC Lab Suspension,*** Durham County Office of the Public Defender, 4 September 2015, Durham NC.

Presenter, Seminar (2 hr CLE): ***Interpreting DNA Mixtures: Problems, Pitfalls, and Lessons Learned from the Washington DC Lab Suspension,*** Mecklenburg County Office of the Public Defender, 17 July 2015, Charlotte NC.

Presenter, Lecture: ***Forensic DNA and Serology Evidence: The Use and Abuse of Science at Forensic Labs,*** Rights of Spring Conference, DC Assn of Criminal Defense Lawyers, 2 May 2015, Washington DC.

Presenter, Lecture: ***Functionality and Limitations of DNA Databases,*** Whiskey in the Courtroom: Evolving Trends in Forensic Science, Duke University School of Law, 20 March 2015, Durham, NC.

Presenter, Lecture: ***Forensic DNA and Serology Evidence: Science, Justice, and the Gaps in Between,*** Federal Criminal Practice Seminar, Sponsor: Office of the Federal Public Defender, Eastern District of NC, 19 March 2015, Carolina Beach, NC.

Presenter, Webinar: ***The Principles of Forensic DNA Evidence: A Primer for the Law Professional***, The School of Government, The University of North Carolina at Chapel Hill, recorded 19 October 2011 (Available on demand through The School of Government website).

Presenter, Seminar: ***Forensic DNA and Serology Evidence: Science, Justice, and the Gaps in Between,*** Criminal Procedure and Innocence and Justice Clinic, The Wake Forest University School of Law, 30 November 2014, Winston-Salem, NC.

Presenter, Seminar: ***Forensic DNA and Serology Evidence: Scientific Principles and Evidence Interpretations,*** Office of the Public Defender, Mecklenburg County, 24 November 2014, Charlotte, NC.

Presenter, Seminar: ***Forensic DNA and Serology Evidence: Scientific Principles, Lab Reports, and Red Flags,*** 2014 NC Forensic Consultant Network (CLE Program for NC Public Defenders, Sponsored by the School of Government, UNC-Chapel Hill), Judicial Center, 25 July 2014, Raleigh, NC.

Presenter, Lecture: ***Presumptive or Confirmatory: The Science and Limitations of Forensic Bodily Fluid Identification,*** Forensic DNA for Trial Attorneys 2014 Conference, Cook County Public Defender Forensic Science Division and The John Marshall Law School, 29 May 2014, Chicago, IL.

Presenter, Research Abstract: ***The Development of an Experimental Setup and Recovery of Biological Evidence from Bullets for DNA Analysis***, General Section Platform Presentation, 66th Annual Scientific Meeting, The American Academy of Forensic Sciences, February 2014, Seattle, WA.

Faculty, Seminar: ***Examination of Forensic Experts in Criminal Cases***, Advocacy Skills Training Series, NC Advocates for Justice (9.75 hrs CLE), 4-5 April, 2013, Raleigh, NC.

Moderator, General Section Platform Presentations: ***Homicide and Suicide***, American Academy of Forensic Sciences annual meeting, Washington, DC, February 22, 2013.

Presenter, Seminar: ***Forensic DNA Analysis,*** Forsyth County Criminal Defense Trial Lawyers Association, 28 September 2012, Winston-Salem, NC.

Presenter, Seminar: ***Forensic Science: DNA and Pathology,*** Forsyth County Criminal Defense Trial Lawyers Association, 28 September 2012, Winston-Salem, NC.

Presenter, Seminar: ***DNA Analysis and Statistical Interpretations,*** Orange County Office of Public Defenders, 5 June 2012, Hillsborough, NC.

Presenter, Lecture: ***Challenges in Dealing with Forensic DNA Evidence: Lab Reports and Interpretation of Data,*** UNC-School of Government (1.5 hr CLE), 22 March 2012, Chapel Hill, NC.

Presenter, Seminar: ***DNA Made Simple***, Experienced Counsel Capital & Serious Felony Trial Training, 1 March 2012, Durham, NC.

Presenter, Seminar: ***The Use of DNA in Forensics: Principles, Advances and Limitations (Lab Reports and Data Interpretation)***, The Commission for Death Penalty Litigation, 1 November 2011, Durham, NC.

Presenter, Live Webinar: ***The Use of DNA in Forensics: Principles, Advances and Limitations***, The North Carolina Advocates for Justice, 19 October 2011 (Available on demand through NCAJ website).

Presenter, Career Mentorship Workshop: ***The Path to Leadership in Healthcare***, Triangle Global Health Consortium, 22 July 2011, RTP, NC.

Presenter, Career Mentorship Workshop: ***The Path to Leadership in Healthcare***, North Carolina School of Science and Math, 28 Jan 2011, Durham, NC.

Additional Forensic DNA Workshops Created/Presented:

1) Developed and presented a 30 hour (CLE) workshop for Capital Defenders on Serology and DNA evidence titled:

The DNA Bootcamp: Using Forensic Evidence to Negotiate Pleas, Get Dismissals, and Prevent Wrongful Convictions

This workshop was organized in collaboration with IDS Forensic Resource Counsel and OCD Trial Resource Counsel and held on July 26-27 and August 23-24, 2012, in Chapel Hill, NC.

2) Developed and presented a four hour workshop for Law Professionals on DNA evidence titled:

The Use of DNA in Forensics: Principles, Advances and Limitations.

The workshop received approval from the NC State Bar as Continuing Legal Education (CLE) course (four credit hours). This workshop was held at the following locations and dates:

-Durham County Courthouse, North Carolina, 2/11/2011, 9/4/2015
-New Hanover County Courthouse, Wilmington, North Carolina 4/29/2011
-Cumberland County Courthouse, Fayetteville, North Carolina 11/21/2013
-Hendersonville County Courthouse, Hendersonville, North Carolina 10/17/2014

3) Developed and presented a four hour workshop for Law Professionals on DNA evidence titled:

Advanced Topics in Forensic DNA Evidence: Lab Procedures, Results, and Interpretations.

This workshop was held on Feb3, 2012, at the Durham County Courthouse in North Carolina. The workshop received approval from the NC State Bar as Continuing Legal Education (CLE) course (four credit hours).

Forensics Blog Posts (Series on Body Fluids):

Forensic Tests for Saliva: What you should know: North Carolina Indigent Defense Services Website, August 2011

Forensic Tests for Semen: What you should know: North Carolina Indigent Defense Services Website, September 2011

Certification:

Diplomat (Molecular Biology)--American Board of Criminalistics (since Oct 2013)

Professional Memberships

American Academy of Forensic Sciences (Current Member)
International Society of Forensic Genetics (Current Member)
American Society of Human Genetics (Current Member)
International Association for Identification (Current Member)
NC Chapter-International Association for Identification (Current Member)
American Academy of Cancer Research (Past Member)
Aircraft Owners and Pilots Association (Current Member)

Committees/Advisory Board Roles:

Member, Advisory Board, Scientific Collaboration, Innovation & Education Group (SCIEG)
Member, Advisory Board, Forensic Resource Counsel, NC-Indigent Defense Services
Member, Awards Committee, General Section, American Academy of Forensic Sciences
Member, Disciplines Committee, General Section, American Academy of Forensic Sciences
Member, Membership and Auditing Committees, NC-International Association for Identification
Member, Advisory Council, Radford University College of Science and Technology

Forensic Science Research Activity:

Project 1: The Development of an Experimental Setup and Recovery of Biological Evidence from Bullets for DNA Analysis: Platform Presentations, 2014 AAFS Annual Scientific Meeting AAFS, Seattle, WA. and 2017 Annual Scientific Meeting AAFS, New Orleans, LA.
Project 2: Recovery of DNA from Fingerprints on Adhesive Side of Duct Tape, Published.
Project 3: Recovery of Touch DNA from Firearms and Fired Cartridge Cases, ongoing.
Project 4: Recovery of DNA from Latent Fingerprint Cards Stored for Over 10 Years, ongoing.
Project 5: Examination of Stamps on Postcards and Letters from the Early and Mid-1900's for the Recovery of DNA, ongoing.
Project 6: Evaluation of the Sensitivity, Specificity and Limitations of the Seratec test strips (HemDirect, PSA Semiquant, alpha-amylase), ongoing.

Professional Awards:

The Robert Gaffney Achievement Award, General Section, American Academy of Forensic Sciences, 2/18/2015

Recent Relevant Technical Training / Workshops / CE Attended

March 2018	Cost-Benefit Analysis of Kinship Testing Involving Siblings, Forensic Technology Center of Excellence/RTI/NIJ, Webinar.
February 2018	Workshop: Proposed Revisions to the Federal Bureau of Investigation (FBI) Quality Assurance Standards - DNA (3.25 hrs), AAFS Meeting, Seattle, WA.
February 2018	Workshop: Moving From CPI to Probabilistic Genotyping for DNA Mixture Interpretation (4.5 hrs), AAFS Meeting, Seattle, WA.
February 2018	Workshop: Science Matters to Everyone: Victims, Offenders, and the Public (6.5 hrs), AAFS Meeting, Seattle, WA.
February 2017	Workshop: Forensic Photography and the Exposure Triangle: What Every Forensic Professional Should Know About ISO, Depth of Field, and Shutter Speed (6.25 hrs), AAFS Meeting, New Orleans, LA.
February 2017	Workshop: Consideration for Crime Scene Analysis When Utilizing Forensic Science Experts for Post-Scene Analysis (4.25 hrs), AAFS Meeting, New Orleans, LA.
April 2017	Charting a Course for the Future of Forensics in the Courtroom, National Association of Criminal Defense Lawyers, Webinar.
November 2016	Y-Screening and Direct Amplification of Sexual Assault Evidence Kit Samples, Promega, Webinar
February 2016	Workshop: Considerations for Implementing Next Generation Sequencing Technology Into a Forensic Laboratory (7.0 hrs), AAFS Meeting, Las Vegas, NV
February 2016	Workshop: Child Homicide: The Critical Role of Interdisciplinary Expert Collaboration (3. 5 hrs), AAFS Meeting, Las Vegas, NV
January 2016	How to Identify Key Genes with CRISPR-Cas9 and shRNA Screens, Dharmacon/GE, Webinar
May 2015	Aerial Photography Using Drones (1.5 hrs), NCIAI Conference, Fayetteville, NC
May 2015	Lecture: The Jeffrey Dahmer Case (3.0 hrs), NCIAI Conference, Fayetteville, NC
May 2015	Workshop and Lecture: Clandestine Graves (5.0 hrs), NCIAI Conference, Fayetteville, NC
May 2015	Lecture: The Duke Lacrosse Case and the Greensboro Massacre Case (2.0 hrs), NCIAI Conference, Fayetteville, NC

March 2015	Child Sex Abuse Cases: Understanding Child Medical Examinations and Working with Medical Experts (1.0 hr), Whiskey in the Courtroom: Duke University School of Law, Durham, NC
February 2015	Workshop: Obtaining Successful DNA Profiles from Challenging Samples (6.75 hrs), AAFS Meeting, Orlando, FL
February 2015	Workshop: Hands-On Evaluation of the Thanatomicrobiome and Epinecrotic Communities, AAFS Meeting (6.0 hrs), Orlando, FL
December 2014	Probabilistic Software for Forensic DNA Interpretation, Webinar
November 2014	Massively Parallel Sequencing and STR Typing: Basics and Forensic Applications, Webinar
April 2014	Workshop: The Great Fingerprint Challenge - Fingerprint Comparison Workshop (3.5 hrs), NC IAI, Fayetteville, NC
April 2014	The Science (and Pseudoscience) of Forensic DNA Profiling (1.25 hrs), NCIAI Conference, Fayetteville, NC
April 2014	Forensic Case Study of the Ft Hood Mass Shooting (3 hrs), NCIAI Conference, Fayetteville, NC
February 2014	Workshop: Utilizing Bloodstain Pattern Analysis and Forensic Pathology to Reconstruct Blood shedding Events (6.75 hrs), AAFS Meeting, Seattle, WA
February 2014	Workshop: Advances in the Investigation and Prosecution of Sexual Assault Allegations, AAFS Meeting (6.75 hrs), Seattle, WA
February 2014	Medical Ethics Simplified - A Model for Ethical Conduct for the Forensic Science Practitioner (1 hr), AAFS Meeting, Seattle, WA
January 2014	Enhancing the Sexual Assault Workflow (DNA sample assessment and amplification, using the Quantifiler® Trio, Yfiler® Plus and GlobalFiler® Kits), Webinar
December 2013	Understanding how automated analysis and expert system software drive Rapid DNA Analysis™, Webinar
November 2013	Overview of Global PPY23-YHRD Database Project and the Impact on the Forensics Workflow, Webinar
April 2013	Human Osteology, Forensic Training (2.5 hrs), NCIAI Conference, Cary, NC
April 2013	Barefoot Evidence, Forensic Training (4.0 hrs), NCIAI Conference, Cary, NC
April 2013	The Virginia Tech Massacre, Forensic Training (4.0 hrs), NCIAI Conference, Cary, NC
April 2013	The Zahra Baker Homicide Case, Forensic Training (3.5 hrs), NCIAI Conference, Cary, NC
April 2013	A Day in the Life of Sadaam Hussein, Forensic Training (3.0 hrs), NCIAI Conference, Cary, NC
April 2013	What Makes a Credible Witness? Webinar
April 2013	DNA Mixture Interpretation Workshop and Webcast, NIST, MD

February 2013	Calculating Likelihood Ratios Incorporating a Probability of Drop-out, AAFS Meeting, Washington, DC
February 2013	DNA in Real Time, Amplifying Productivity in Today's Forensic Laboratory, AAFS Meeting, Washington, DC
February 2013	Lessons from Eyewitness Identification Research for Forensic Scientists, AAFS Meeting, Washington, DC
October 2012	Trace Analysis by Infrared and Raman Spectroscopy, Webinar
October 2012	Rapid DNA Analysis System, RapitHIT® 200, IntegenX, Webinar
April 2012	Wilmington Police Department, Forensic Training (16 hrs), NCIAI Conference, Wilmington, NC
April 2012	Courtroom Testimony, Forensic Training (3 hrs), NCIAI Conference, Wilmington, NC
March 2012	Finger print analysis, Wilmington Police CSI, NCIAI Conference, NC
February 2012	Sex-Related Homicide and Death Investigation, AAFS Meeting, Atlanta, GA
February 2012	Flawed Forensics: Recognizing and Challenging Misleading Forensic Evidence and Disingenuous Expert Testimony, AAFS Meeting, Atlanta, GA
October 2011	DNA Mixture Interpretation Workshop, NFSTC, NIJ
March 2011	Forensic DNA Training, DNA Analyst Training Program, DNA.GOV

Immediate Past (September 2007-December 2010)

Chief Scientific Officer (CSO); Director of Product Development,
Thought Leader Select, LLC, Chapel Hill, NC.

Thought Leader Select (TLS): is a pharmaceutical consulting company that specializes in objectively assessing global, national and regional medical and healthcare experts from a wide range of therapeutic areas. TLS partners with industry clients on a variety of projects that aim at elucidating Key Thought Leaders' involvement in clinical trials, area of expertise, speaking roles, level of influence over patient care decisions and healthcare policy, and other relevant factors. In doing so, TLS helps the industry clients in their quest to obtain the most legitimate, suitable, and cost effective counsel on their drug development pipeline and research efforts.

Through my leadership roles at TLS, I was responsible for the development and execution of the company's line of competitive services and solutions in the area of Key Thought Leader assessments/profiling in particular, and in pharmaceutical consulting in general. As CSO, I was responsible for validating the scientific qualifications of Thought Leaders and ensuring that the highest quality of objective and competitive research is delivered to our clients. I have led complex assessment projects for the top 12 global pharmaceutical companies involving over 16 different therapeutic areas:

-Atrial Fibrillation
-Diabetes
-Antibiotics / Infectious Disease
-HIV
-Parkinson Disease
-Epilepsy
-Age-Related Macular Degeneration,
-Gastrointestinal Disease
-Vaccines
-Hemophilia
-Rheumatoid Arthritis
-Lupus
-Chronic Kidney Disease
-Alpha1-Antitrypsin (AAT) Deficiency
-Payer/Reimbursement Projects
-Allied Health Practitioners

I learned and demonstrated experience in business strategy and development, seamless operations, fiscal responsibility, very strong leadership and interpersonal skills, commitment to success, solid work ethic, and high caliber professionalism. I have also demonstrated adaptability to new skills and new technologies, and shown keen interest in learning best practices and fostering innovation and collaboration.

Leadership roles: (includes supervisory roles of full time staff and contract associates):

-Validation of the skills and scientific experience of Thought Leaders. Expertise include KOL research interpretation, data analysis, and skill assessment.
-Matching the skills of Thought Leaders with clients' objectives/goals at various drug development stages.
-Conception and implementation of creative solutions for data gathering, analysis, and manipulation.
-Development of novel approaches and customized solutions to ensure product competitiveness and continued client satisfaction.
-Refining methods for profiling Thought Leaders to ensure the highest possible service quality is delivered to clients.
-Oversight of multiple projects from inception to completion.
-Oversight of multiple research teams working on various project phases.
-Full Oversight of the company's existing information technology platforms and IT personnel (Web IT support and database IT support).
-Conception of database design, functionality, and productivity in meeting clients' expectations.
-Oversight and strategic development of the company's future IT platform needs.
-Presentation of project results and deliverables to client companies.

-Fostered professional relationships with Key Thought Leaders (MDs, PhDs, PharmDs, RNs, Vets, etc)
-Ensured compliance with data privacy laws in the US and globally, and educating clients and Thought Leaders on such laws.

August 2005-August 2007:

Senior Research Fellow, Laboratory of Molecular Genetics,
National Institute of Environmental Health Sciences/NIH, RTP NC 27709.

Involved in designing, directing, and conducting four main studies that required specialized expertise in complex human genetics, cell culture, DNA genotyping, gene expression profiling through microarray technology, and microfluidics platforms:

-Developed a high throughput Luminex/Microsphere-based assay for the detection of P53-DNA binding interaction (see Noureddine et al., PLoS Genetics 2009). This assay is now being used by various groups and has been adopted for several other DNA binding proteins, based on my published work.

-Identified a set of genes that are responsive to the tumor suppressor protein P53 in blood lymphoblasts in response to chemotherapeutic agents and oxidative stress.

-Conducted functional molecular studies on polymorphisms in p53 response elements based on epidemiologic data and NCI's cancer cell lines.

-Conducted functional mammalian cell culture-based studies on human Toll-like receptor (TLR8).

Participant, National Toxicology Program (NTP) High Throughput Screening (HTS) Faculty.
Duties include:

-Development/ implementation of a strategy for the use of HTS assays by the NTP.

June 2002-August 2005:

Postdoctoral Research Fellow, Duke University Medical Center, Durham, NC 27710.
The Center for Human Genetics/Morris K. Udall Parkinson Disease Research Center for Excellence.
Supervisors at DUMC: Dr. Jeffery Vance, Dr. Michael Hauser, Dr. Yi-ju Li.

Through this postdoctoral training, I demonstrated skill and experience in designing and conducting studies that required advanced human genetics expertise, state of the art laboratory platforms, cell culture experience, disease modeling, and multidisciplinary approaches to investigating complex human disease. I demonstrated work expertise in molecular biology, genetics, cell culture, animal models, genotyping and array platforms, and advanced microscopy. I specialized in complex human neurodegenerative disease modeling in mammalian tissue culture systems, creation of transgenic models, expression analysis (Microarray and SAGE), Real-Time PCR expression analysis, RFLP analysis, in vitro and in vivo assay design, DNA, RNA, and protein manipulation, vector design, Southern and Western blotting, biochemical analysis of mitochondria and PBMCs, Laser Capture Microscopy (LCM) and RNA amplification from human brain tissue; tissue processing (IHC, ICC, cryotomy, microtomy, confocal and fluorescence microscopy), Luminex/Bioplex microbead fluidics system. Additional work experience included leadership and supervisory duties of laboratory analysts and technicians, in addition to oversight and consultant roles on several other projects at the Center for Human Genetics and other institutions. Possess excellent skills in computers, including imaging analysis, DNA sequence analysis, Adobe photoshop, and MS office.

Work Details:

-Project Lead: identification and characterization of susceptibility genes for Parkinson disease (PD) by utilizing *Genomic Convergence*. This work combined linkage analysis and gene expression data generated from Microarray and Serial Analysis of Gene Expression (SAGE) to pinpoint high quality candidates for PD (see Noureddine et al, *Movement Disorders* 2005). This breakthrough work utilized highly refined laboratory technologies, from donor brain tissue manipulation to sophisticated IT platforms and data analysis techniques. This work also entailed complex analyses of mitochondrial genomes.

-Identified a candidate gene (*ELAVL4*) with significant association between Age-at-onset trait and Parkinson Disease (Noureddine et al., *Human Genetics* 2005).

-Identified, genotyped, and analyzed disease-associated Single Nucleotide Polymorphisms (SNPs); conducted iterative mapping on chromosomes 1, 5, and 9 linkage peaks for familial PD and Age at Onset trait.

-Conducted genomic studies that identified a gene linked to Age-related Macular Degeneration (See Haines et al., *Science* 2005). This discovery resulted in the development of a genomic test kit for AMD.

-Conducted characterization studies on PD cybrid cell lines, focusing on the effect of oxidative stress (hypoxia, hyperoxia) on cell integrity and viability, including characterization of mitochondrial OXPHOS components' activity and integrity, apoptosis, and response to neurotrophic growth factors.

-Characterized familial mutations in the gene DNM2 involved in peripheral neuropathy disease, Charcot-Marie-Tooth (CMT: See Zuchner et al., *Nature Genetics* 2005).

-Developed neuronal cell culture-based model systems to study the role of candidate genes in PD and CMT.
-Conducted cell culture based assays to analyze the function of FGF20 in Parkinson disease (see Van der walt et al., *American Journal of Human Genetics* 2004)

Education

May 2002	**Ph.D.** (Molecular Genetics) Department of Biology, University of North Carolina at Chapel Hill (UNC-CH).
May 1997	**M.Sc.** (Molecular Biology) Department of Biology, University of North Carolina at Greensboro (UNCG). GPA: 3.75
May 1993	**B.S.** (Biology) Department of Biology (Minor in Chemistry), Radford University (RU), Radford, Virginia. Magna Cum Laude. GPA: Overall: 3.76, Major: 3.91
1988-1990	Biology Major, American University of Beirut (AUB).
1987	International Baccalaureate, Dubai, United Arab Emirates (UAE).

Doctoral and Pre-doctoral Academic Research and Teaching Experience

1997-2002 **(Dissertation)** Graduate Research Assistant, Department of Biology, UNC-CH. Dissertation title: Genetic and Molecular Characterization of *Drosophila* Ubiquitin Ligase (E3) Ring Finger Protein Component, dRoc1a. Advisor: Dr. Robert Duronio.
Experience included complex molecular genetics methodologies, generation of genetically engineered organisms, gene expression analysis, specialized microscopy.

1994-1997 **(Masters)** Graduate Research Assistant, Department of Biology, UNCG. Masters Thesis Title: Construction of an In Vivo Reporter System for Ecdysteroids Activity in the Fruitfly *Drosophila melanogaster*. Advisor: Dr. Vincent Henrich.

1992-1993 Undergraduate Research, Department of Biology, Radford University
-Studied mating habits of the desert spider *Agelenopsis aperta*.
Supervisor: Dr. Fred Singer
-Studied the effects of acidic pH on corn seed *Zea mays* germination.
Supervisor: Dr. Eugene Gourley.
-Studied a lichen species by isolation and regrowth of mycobiont and phycobiont components in vitro. Supervisor: Dr. Judy Niehaus.
-Studied the eosin eye color as a recessive X-linked gene in *Drosophila melanogaster*. Supervisor: Dr. Charlene Lutes.

1997-1998 Graduate Teaching Assistant, Department of Biology, UNC-CH. Molecular Biology Techniques, Cell Biology Lab.

1994-1997 Graduate Teaching Assistant, Human Anatomy and Physiology Lab/lecture Instructor, Department of Biology,UNCG.

1992-1993 Undergraduate Lab Assistant, Department of Biology, RU.

Past Relevant Technical Training / Workshops Attended

November 2008	Integrated Opinion Leader Management Systems, CBI
April 2006	Chemical Genomics Course: National Toxicology Program, NIEHS/NIH.
January 2006	SNP Workshop: Bioinformatics and Genotyping, NIEHS/NIH.
August 2005	Small Interfering RNA (RNAi) and functional Genomics, NIEHS/NIH.
May 2005	Agilent 2100 Bioanalyzer User's Meeting, NCBC, NC, Sponsor DUMC.
April 2003	Genetic Analysis of Complex Human Diseases Course, DUMC.

Academic Honors

1996	Teaching Assistant of the Year, Department of Biology, UNCG.
1996	Poster of the Year Award, 4th Annual Biotechnology and Life Sciences Poster Session, Department of Biology, UNCG.
1993	Department of Biology Nominee for the Dean's Scholar Award of the College of Arts and Sciences, RU.
1991-1993	Dean's List (four consecutive semesters), Radford University.
1991-1993	The National Dean's List.
1992	Phi Kappa Phi Honor Society, Radford University Chapter.
1986	Certificate of Honor, Chess Olympics/Mawakeb High School, Dubai, UAE.

Languages:

English **(Fluent)**
Arabic **(Fluent)**
French **(Working knowledge)**

Other Skills/Work Experience

1998-Pres. **Member**, Civil Air Patrol (USAF Aux). **Rank:** Lieutenant Colonel. Mission Pilot (Search and Rescue/Disaster Relief/Transport). Certified in Red Cross CPR, First Aid, and Blood Borne Pathogens. FCC-qualified advanced HF-VHF Radio Operator.

1994-Pres. **FAA Licensed Private Pilot**, single-engine land, Instrument/Complex/High Performance Ratings, qualified in G1000 avionics/Glass Cockpit.

1994 **Software Instructor**, CompUSA, Inc. Greensboro, NC.

1993-1994 **Manager**, Pita Delite Restaurant, Greensboro, NC.

1991-1993 **Users Assistant and Monitor**, Computer Lab, RU.
1991-1992 **Greenhouse Manager**, Department of Biology, RU.
1988-1990 **Red Cross volunteer**, Beirut, Lebanon.
1986-1988 **Construction Worker and Personnel Supervisor**, Dubai, UAE.
1986 **Filing Department and Front Desk Clerk**, Banque De L'orient Arabe Et D'outre-Mer, Dubai, UAE.

Other Offices Held

08/2009-08/2012 **Group2 Commander**, North Carolina Wing, Civil Air Patrol (USAF-AUX) Jurisdiction/responsibility includes 7 active CAP squadrons in the central region of North Carolina (approx 350 members).

2008-Curr **Group2 Deputy Commander**, North Carolina Wing, Civil Air Patrol (USAF-AUX)

2006-2007 **Member**, Laboratory of Molecular Biology (LMG) Trainee Action Committee, NIEHS/NIH, RTP, NC.

2005-2006 **Commander**, Chapel Hill Composite Squadron, Civil Air Patrol (USAF-AUX), North Carolina Wing.

1998-2004. **Aerospace Education Officer**, Chapel Hill Composite Squadron, Civil Air Patrol (USAF-AUX), North Carolina Wing.

2004-2006 **Vice President**, Harrington Meadows Community Association, Raleigh, NC.

1997-2000 **Volunteer Coordinator**, Chapel Hill Flying Club, Chapel Hill, NC.

2001-2002 **Fordham Hall Representative**, UNC-Chapel Hill Department of Biology Graduate Student Association.
1995-1996 **President**, Biology Graduate Student Association, UNCG.

Volunteer Service Awards: Civil Air Patrol, USAF/AUX and Other

2017	NC Wing Commander's Commendation Award, Civil Air Patrol, Hurricane Matthew Disaster Relief
2012	Meritorious Service Award, Civil Air Patrol
2008	Grover Loening Award, Civil Air Patrol
2005	Certificate of Appreciation, NC DCCPS, for Hurricane Ophelia support
2004	Certificate of Commendation, NC150 Orange County Squadron
2004	NC Wing Commander's Commendation Award, Civil Air Patrol
2004	Aerospace Education Professional Service Award, Civil Air Patrol
2004	NC150 Co-Senior Member of the Year, 2004
2001-2005	Aerospace Education Excellence awards for NC150 Orange County Squadron
2003	Leadership Award, Civil Air Patrol
2003	Red Service w/clasp, Civil Air Patrol
2002	NC Wing Commander's Commendation Award, Civil Air Patrol
2000	Red Service Ribbon
1999-2000	Durham Shelter volunteer

Peer Reviewed Publications:

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Brian N. Chorley, Xuting Wang, Michelle Campbell, Gary Pittman, **Maher Noureddine**, Douglas Bell. Discovery and verification of functional single nucleotide polymorphisms in regulatory genomic regions: current and developing technologies. ***Mutat Res***. 2008 Jul-Aug;659(1-2):147-57.

Sofia A. Oliveira, Yi-Ju Li, **Maher A. Noureddine**, Stephan Züchner, Xuejun Qin, Margaret A. Pericak-Vance, and Jeffery M. Vance. Identification of risk and age-at-onset genes on chromosome 1p in Parkinson disease. ***Am J Hum Gene***, 2005 Jun 28;77(2).

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Michael A. Hauser, Yi-Ju Li, Hong Xu, Judith E. Stenger, **Maher A. Noureddine**, Yujun S. Shao, Steve R. Gullans, Clemens R. Schertzer, Roderick V. Jensen, Adam C. McLaurin, Burton L. Scott, Rita M. Jewett, Christine M. Hulette, Donald E. Schmechel, Jeffery M. Vance. Expression Profiling of Substantia Nigra in Parkinson, PSP, and FTDP-17. ***Arch Neurol***. 2005 Jun;62(6):917-21.

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Joelle M. van der Walt, **Maher A. Noureddine**, Raja Kittappa, Michael A. Hauser, William K. Scott, Ron McKay, Fengyu Zhang, Jeffrey M. Stajich, Kenichiro Fujiwara, Burton L. Scott, Margaret A. Pericak-Vance, Jeffery M. Vance, and Eden R. Martin. Fibroblast Growth Factor 20 polymorphisms and haplotypes strongly influence risk of Parkinson disease. ***Am J Hum Genet***. 2004 Jun;74(6):1121-7.

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Abstracts Presented at Major Conferences:

Maher Noureddine and James Bailey. ***DNA in the Air: The Recovery of DNA Samples from Residential HVAC Air Return Filters Using the Single 4N6FLOQSwab Method;*** Platform Presentation, 70th Annual Scientific Meeting, The American Academy of Forensic Sciences, Seattle, WA (Feb 2018).

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Maher Noureddine and James Bailey. ***Recovery of STR DNA Profiles from Fingerprints Developed on Adhesive Side of Duct Tape.,*** Poster Presentation, 26th *International Symposium on Human Identification*, Promega Corp., Grapevine, TX (Oct 2015).

Maher Noureddine, James Bailey, Alice Squassina, Santina Castriciano, and Giorgio Triva. ***Examination of Stamps on Postcards and Letters from the Early and Mid-1900's for the Recovery of DNA,*** Poster Presentation, 26th *International Symposium on Human Identification*, Promega Corp., Grapevine, TX (Oct 2015).

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Maher Noureddine and James Bailey. ***A Pilot Study to Evaluate Baseline Quantities of Touch DNA From a Pistol and Ammunition,*** Poster Presentation, 27th Annual Scientific Meeting, The American Academy of Forensic Sciences, Orlando, FL (Feb 2015).

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Vincent Henrich, Julia Loreth, Mark Hens, and **Maher Noureddine**. ***Use of Green Fluorescent Protein as a Transgenic Reporter of Ecdysteroid-Inducible Transcription Activity in Drosophila***. 41st annual *Drosophila* Research Conference, Pittsburgh, PA. (2000)

Peter Bonnette, Aubrey Turner, Elisa Stephens, **Maher Noureddine**, Jim Mason, and Vincent Henrich. ***Molecular Characterization of the Ecdysonless Chromosomal Region in Drosophila***. 38th annual *Drosophila* Research Conference, Chicago, IL. (1997)

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